



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR,
PRUDENTIAL BUILDING,
195 NORTH TERRACE,
ADELAIDE

FACTORIES

SOUTH AUSTRALIA

YEAR 1963-64

SCOPE

This bulletin summarizes information relating to factory operations and shows either in total or by class of factory details of : number of factories ; number of persons employed ; salaries and wages paid ; value of land, buildings, plant, and machinery ; value of materials used ; value of power and fuel used ; value of production ; value of output ; capacity of engines used.

DEFINITIONS

For the purpose of the collection from which these statistics are compiled a factory is defined as an establishment in which four or more persons are employed or where power driven machinery is used in any manufacturing, repairing, or assembling process.

The figures relating to employment include proprietors who work in their own businesses but exclude those persons engaged in selling or distribution.

Value of output is the value of the goods manufactured and includes bounty and subsidy payments and amounts received for repair work and work done on commission; it excludes excise duties and all delivery costs and charges.

Value of production is the value added to raw materials by the process of manufacture and is calculated by deducting from the value of output the value of materials used, power and fuel consumed, tools replaced, containers, and repairs to plant and buildings.

Value of land and buildings and value of plant and machinery include estimated amounts for rented premises and plant.

SUMMARY OF
OPERATIONS

The number of factories for which details of operations during 1963-64 are included in this bulletin is 5,826, the number for 1962-63 being 5,766.

Average employment in factories during the year increased from 105,265 in 1962-63 to 110,813 in 1963-64, an increase of 5.3 per cent - there had been a fall of 1 per cent in 1961-62 and a rise of 6.2 per cent in 1962-63.

The value of production rose from £189,571,000 in 1962-63 to £213,678,000 in 1963-64, an increase of 12.7 per cent compared with increases of 9.0 per cent, 2.3 per cent and 4.3 per cent for 1962-63, 1961-62 and 1960-61 respectively. The largest increases during 1963-64 occurred in factories classified to the Chemicals and paints, Plant and machinery, Motor bodies, and the Food, drink, and tobacco industries.

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TABLE 1 - FACTORY OPERATIONS, INDUSTRIAL CLASSES, SOUTH AUSTRALIA, 1963-64

Industrial Class	Number of Establishments	Employment (a)		Value of -						
		Males	Females	Salaries and Wages Paid (b)	Power, Fuel, etc. Used	Other Costs of Production (c)	Production	Output	Land and Buildings	Plant and Machinery
		Number		£'000						
Treatment of non-metal mine products	192	2,186	139	2,818	1,181	8,303	8,383	17,867	3,559	7,173
Bricks, pottery, glass, etc.	76	2,008	195	2,611	829	3,156	5,325	9,310	2,218	2,383
Chemicals, dyes, paints, etc.	100	2,720	495	4,022	1,662	20,532	13,210	35,404	4,955	17,786
Metals, machines, conveyances -										
Plant, equipment, and machinery	268	9,516	1,848	12,712	739	26,370	20,523	47,632	8,581	6,073
Electrical engineering, etc. (inc. wireless)	191	3,239	1,945	5,126	202	8,653	8,728	17,583	3,278	1,733
Other engineering	240	4,729	316	5,732	143	6,745	8,231	15,119	4,273	4,335
Construction & repair of vehicles -										
Tramcars and railway rolling-stock	13	3,638	61	4,114	116	2,878	5,397	8,391	1,893	2,621
Motor vehicle repairs	1,355	6,441	717	6,029	177	7,524	9,863	17,564	8,654	1,774
Motor bodies	295	13,964	662	19,670	928	60,178	24,431	85,537	11,901	16,234
Other (inc. ships and boats)	126	3,842	423	4,817	175	6,198	7,327	13,700	2,425	1,530
Sheet metal working, etc.	131	2,727	595	3,662	174	6,857	6,484	13,515	3,608	1,771
Pipes, tubes, etc. (ferrous)	8	2,204	187	3,236	346	6,355	5,890	12,591	1,798	2,000
Total metals, machines, etc.	2,841	57,032	7,447	73,847	5,961	165,953	113,291	285,205	56,195	69,831
Textiles, etc. (not dress)	57	1,237	1,285	2,379	230	5,457	4,219	9,906	2,082	2,328
Skins and leather	38	1,035	168	1,227	147	7,345	1,798	9,290	762	491
Clothing (except knitted)	573	1,812	3,500	3,599	158	4,276	5,874	10,308	3,267	1,449
Food, drink, and tobacco	737	7,936	3,678	11,049	1,513	50,672	23,430	75,615	16,614	12,681
Sawmills, joinery, etc.	413	5,076	381	5,183	343	13,131	9,540	23,014	4,240	4,162
Furniture of wood, bedding, etc.	221	1,846	486	1,972	55	4,348	3,576	7,979	1,861	660
Paper, stationery, printing, etc.	193	3,756	1,230	5,547	660	9,233	10,854	20,747	6,533	8,974
Rubber	59	1,046	202	1,614	190	2,471	3,323	5,984	1,749	1,019
Heat, light, and power	33	1,903	30	2,618	4,343	2,077	7,253	13,673	9,289	35,294
Other	293	1,340	644	1,672	114	2,875	3,602	6,591	1,990	903
Total	5,826	90,933	19,880	120,158	17,386	299,829	213,678	530,893	115,314	165,134

(a) Average employment over whole year, including working proprietors.

(b) Excludes drawings of working proprietors.

(c) Materials used, containers, tools replaced, and repairs to plant and buildings.

TABLE 2 - FACTORY OPERATIONS, SOUTH AUSTRALIA

Particulars	1959-60	1960-61	1961-62	1962-63	1963-64
Number of establishments	4,684	5,042	5,519	5,766	5,826
Employment (a) -					
Males	81,312	81,898	81,803	86,655	90,933
Females	17,706	18,057	17,291	18,610	19,880
Salaries and wages paid (£'000) (b) -					
Males	85,333	88,622	89,385	98,911	107,564
Females	9,905	10,360	10,146	11,123	12,594
Salaries etc. per employee (£) (b) -					
Males	1,088	1,125	1,140	1,188	1,228
Females	576	592	610	620	656
Value of (£'000) -					
Power, fuel, light, etc. used	15,093	15,184	15,323	16,036	17,386
Other costs of production (c)	207,636	216,382	212,561	251,430	299,829
Production	162,974	170,062	173,914	189,571	213,678
Output	385,702	401,628	401,797	457,037	530,893
Land and buildings	77,632	87,729	98,297	106,482	115,314
Plant and machinery	98,241	113,100	126,503	146,804	165,134

(a) Average employment over whole year, including working proprietors.

(b) Excludes drawings of working proprietors.

(c) Materials used, containers, tools replaced, and repairs to plant & buildings.

SIZE OF
FACTORIES

Table No. 3 shows factories classified by the average number of persons employed. In each of the three years 1959-60, 1960-61 and 1961-62 the coverage of the collection was improved by the inclusion of a number of small firms which are not liable to register as factories but which conform to the definition shown on page 1 of this bulletin.

TABLE 3 - CLASSIFICATION OF FACTORIES BY NUMBER OF PERSONS EMPLOYED, SOUTH AUSTRALIA

Number of Employees	1959-60	1960-61	1961-62	1962-63	1963-64
	Number of Factories				
Under 4	1,837	2,125	2,543	2,674	2,678
From 4 to 10	1,548	1,612	1,641	1,719	1,724
From 11 to 20	592	587	589	621	636
From 21 to 50	415	419	434	429	446
From 51 to 100	154	159	169	171	184
Over 100	138	140	143	152	158
Total number of factories	4,684	5,042	5,519	5,766	5,826

CAPACITY
OF ENGINES

For 1963-64 the rated capacity of steam engines used in factories increased by 77,000 h.p., the largest increase being in the Heat, light and power industrial class.

TABLE 4 - CAPACITY OF ENGINES IN FACTORIES, SOUTH AUSTRALIA

Type of Engine	1959-60	1960-61	1961-62	1962-63	1963-64
	Horse-power				
Steam	634,638	739,827	826,422	826,329	903,437
Electric	478,522	532,438	571,230	602,439	603,230
Oil	43,241	45,806	41,692	40,909	39,447
Gas	1,037	977	946	698	403

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EMPLOYMENT

Table No. 5 shows employment in factories at 30th June. Average employment over the whole year is shown in Table No. 2.

TABLE 5 - EMPLOYMENT IN FACTORIES AT 30TH JUNE, SOUTH AUSTRALIA

Particulars	1959-60	1960-61	1961-62	1962-63	1963-64
Working proprietors -					
Males	2,896	3,138	3,417	3,426	3,367
Females	498	562	665	677	683
Wage and salary earners -					
Under 16 yrs - Males	883	878	953	893	677
Females	883	804	993	872	721
16 - 20 yrs - Males	7,106	7,214	7,898	8,816	9,675
Females	3,839	3,634	4,237	4,646	5,119
21 yrs and over - Males	71,567	67,536	72,124	75,237	79,176
Females	12,935	11,252	12,038	12,483	13,714
Total	100,607	95,018	102,325	107,050	113,132

POWER, FUEL,
MATERIALS,
ETC. USED

Tables No.6 and No.7 give details of power, fuel and materials used in Factories. Almost all of the Leigh Creek coal consumed was used in the generation of electricity.

TABLE 6 - POWER, FUEL, ETC. USED IN FACTORIES, SOUTH AUSTRALIA

Particulars	Unit	1959-60	1960-61	1961-62	1962-63	1963-64
Coal (a) - Leigh Creek	ton	676,719	958,709	1,264,002	1,382,095	1,556,986
Other	ton	738,026	572,494	417,790	419,714	376,866
Coke	ton	323,723	339,544	342,426	329,610	315,322
Wood	ton	215,327	229,477	224,771	249,124	273,172
Fuel oils (inc. tar fuel) (a)	ton	199,934	215,966	256,134	310,100	399,867
Gas	£'000	263	260	262	298	325
Electricity	£'000	4,062	4,330	4,375	4,985	5,606
Lubricating oils and water	£'000	728	791	789	856	985

(a) Includes quantities classified as materials used.

TABLE 7 - OTHER COSTS OF PRODUCTION IN FACTORIES, SOUTH AUSTRALIA

Particulars	1959-60	1960-61	1961-62	1962-63	1963-64
	£'000				
Materials used	191,852	200,139	195,335	233,119	279,442
Containers	8,630	9,135	9,994	10,223	10,903
Tools replaced and repairs to plant and buildings	7,154	7,108	7,232	8,088	9,484
Total	207,636	216,382	212,561	251,430	299,829

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VALUE OF
PRODUCTION

The value of factory production at £213,678,000 was £24,107,000 higher than for 1962-63, an increase of 12.7 per cent compared with increases of 9.0 per cent in 1962-63, 2.3 per cent in 1961-62 and 4.3 per cent in 1960-61.

TABLE 8 - VALUE OF FACTORY PRODUCTION, SOUTH AUSTRALIA

Industrial Class	1959-60	1960-61	1961-62	1962-63	1963-64
	£'000				
Treatment of non-metal mine products	5,057	5,848	6,099	7,364	8,383
Bricks, pottery, glass, etc.	4,437	4,577	4,134	4,849	5,325
Chemicals, dyes, paints, etc.	8,958	8,992	8,982	10,347	13,210
Metals, machines, conveyances -					
Plant, equipment, and machinery	15,587	15,379	16,115	17,900	20,523
Electrical engineering etc. (a)	6,870	7,452	6,153	8,184	8,728
Other engineering	5,824	5,931	7,030	7,663	8,231
Construction & repair of vehicles -					
Tram cars and railway rolling-stock	4,570	4,654	4,719	5,018	5,397
Motor vehicle repairs	5,947	6,819	7,588	8,767	9,863
Motor bodies	18,139	18,239	16,639	21,601	24,431
Other (inc. ships and boats)	6,112	6,876	6,710	6,976	7,327
Sheet metal working etc.	5,045	4,941	4,618	5,285	6,484
Pipes, tubes, etc. (ferrous)	5,587	5,405	4,688	4,825	5,890
Total metals, machines, etc.	87,945	92,014	91,329	101,791	113,291
Textiles etc. (not dress)	3,756	3,861	3,988	3,848	4,219
Skins and leather	1,619	1,420	1,522	1,721	1,798
Clothing (except knitted)	5,066	5,290	5,291	5,507	5,874
Food, drink, and tobacco	17,921	18,081	21,087	20,701	23,430
Sawmills, joinery, etc.	7,977	7,720	8,600	8,453	9,540
Furniture of wood, bedding, etc.	2,884	3,029	3,085	3,261	3,576
Paper, stationery, printing, etc.	7,861	8,633	8,867	9,656	10,854
Rubber	2,547	2,741	2,542	2,789	3,323
Heat, light, and power	4,915	5,813	6,002	6,379	7,253
Other	2,031	2,043	2,386	2,905	3,602
Total	162,974	170,062	173,914	189,571	213,678

(a) Includes radio, television, etc.

D.L.J. AITCHISON

DEPUTY COMMONWEALTH STATISTICIAN

Commonwealth Bureau of Census & Statistics,
ADELAIDE, S.A.
25th February 1965.

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